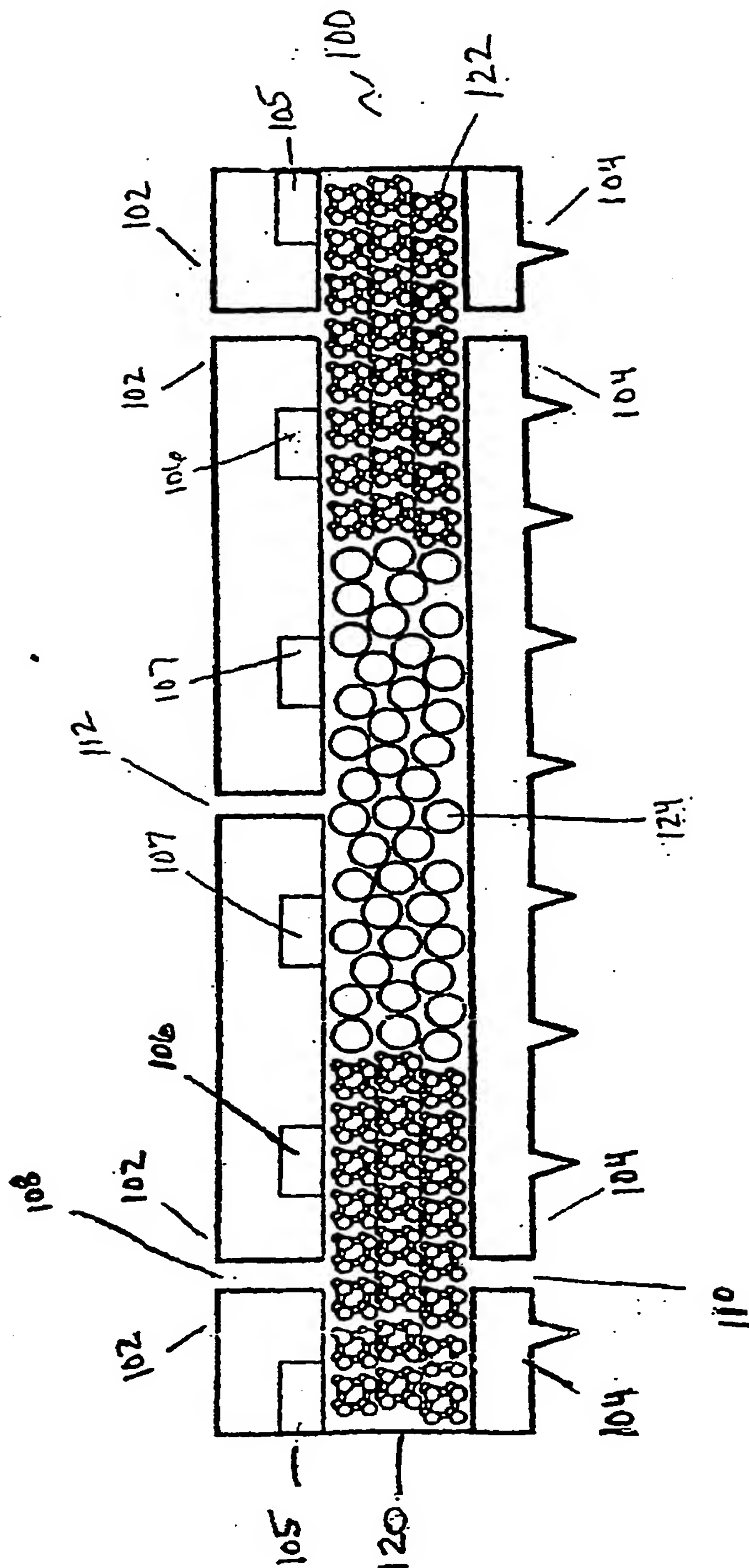
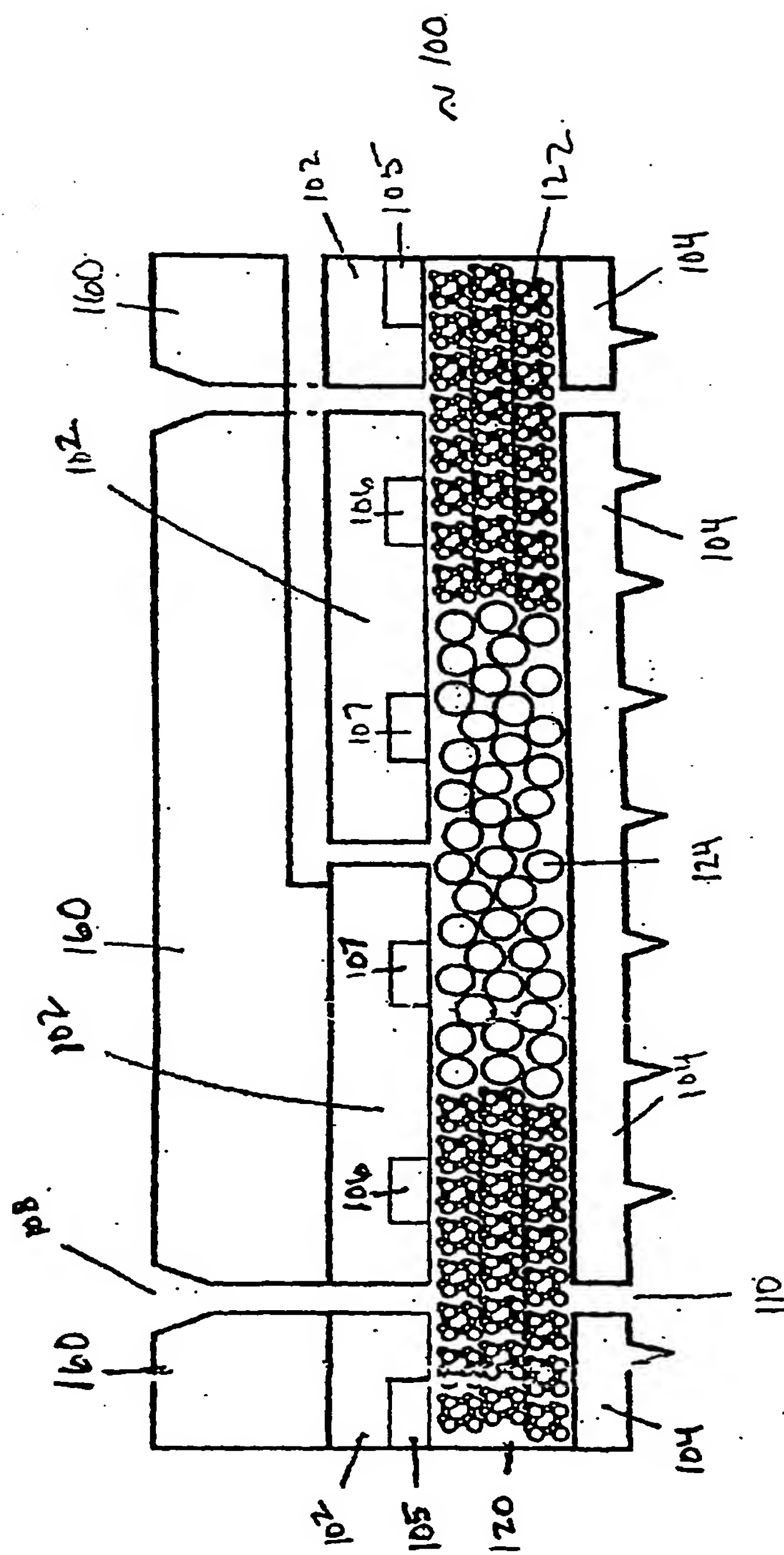


FIGURE 1A



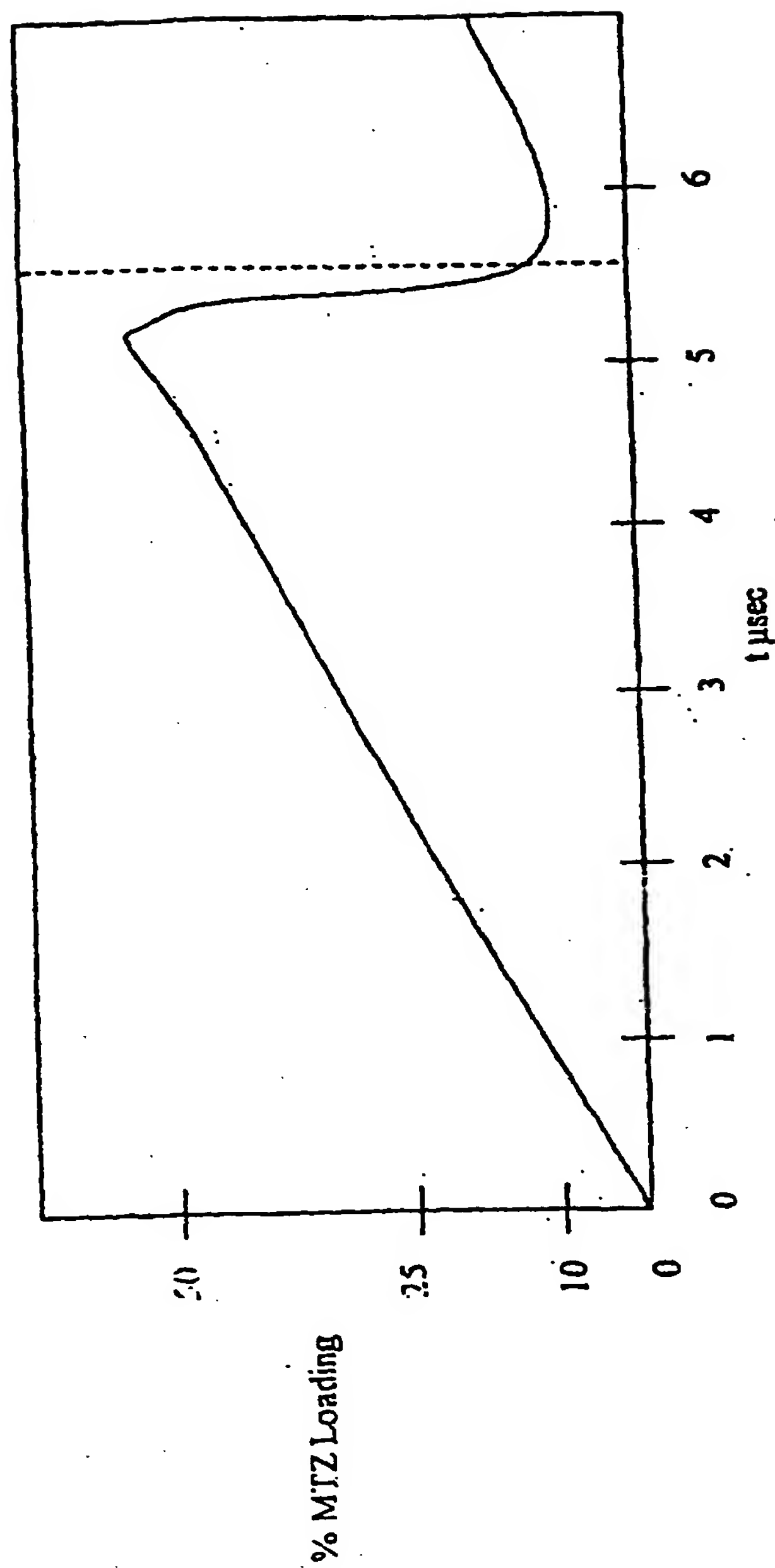
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FIGURE 1B



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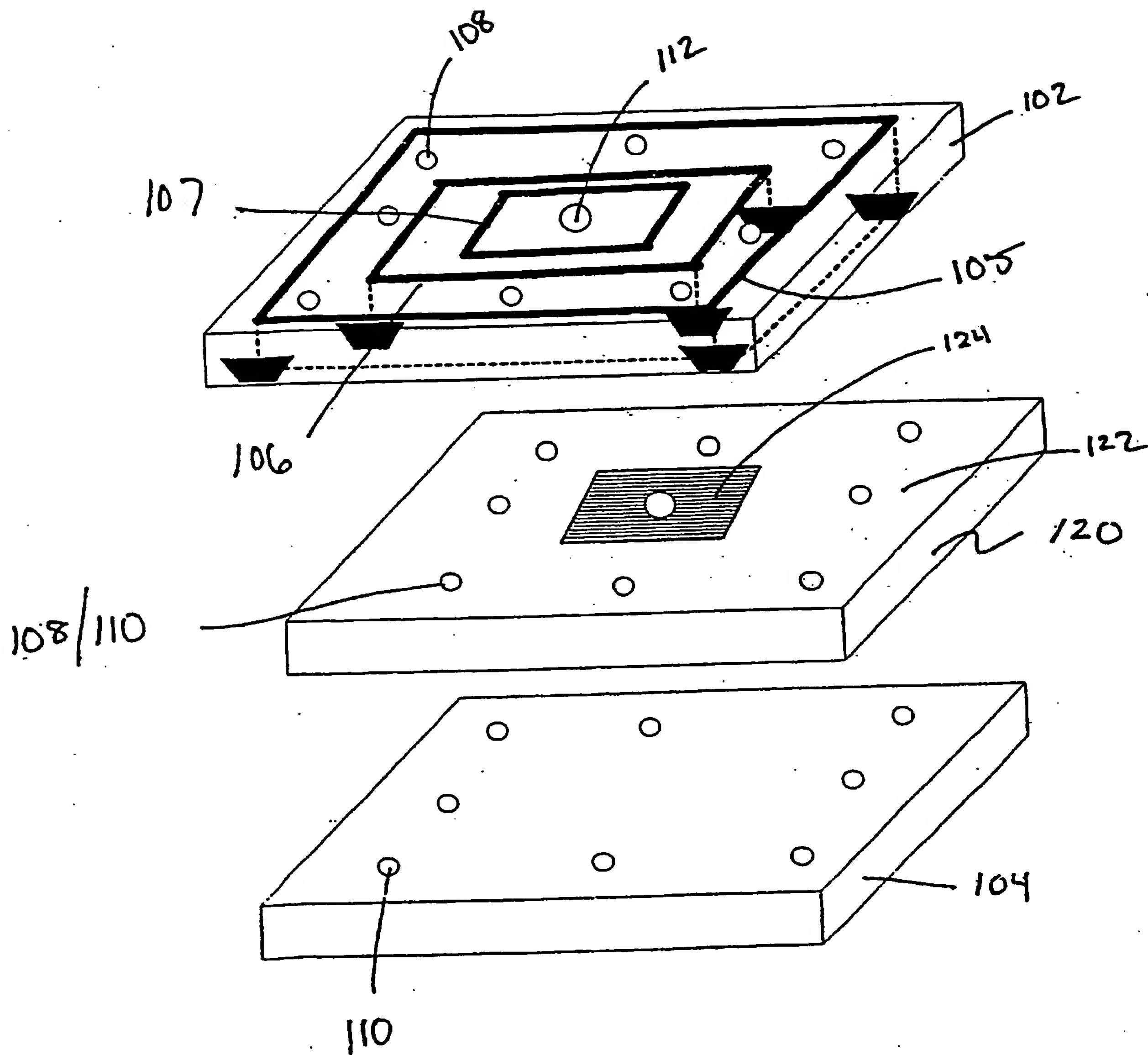
FIGURE 1C



The process is referred to as continuous because it does not cycle between vessels, but, obviously, has periodicity.

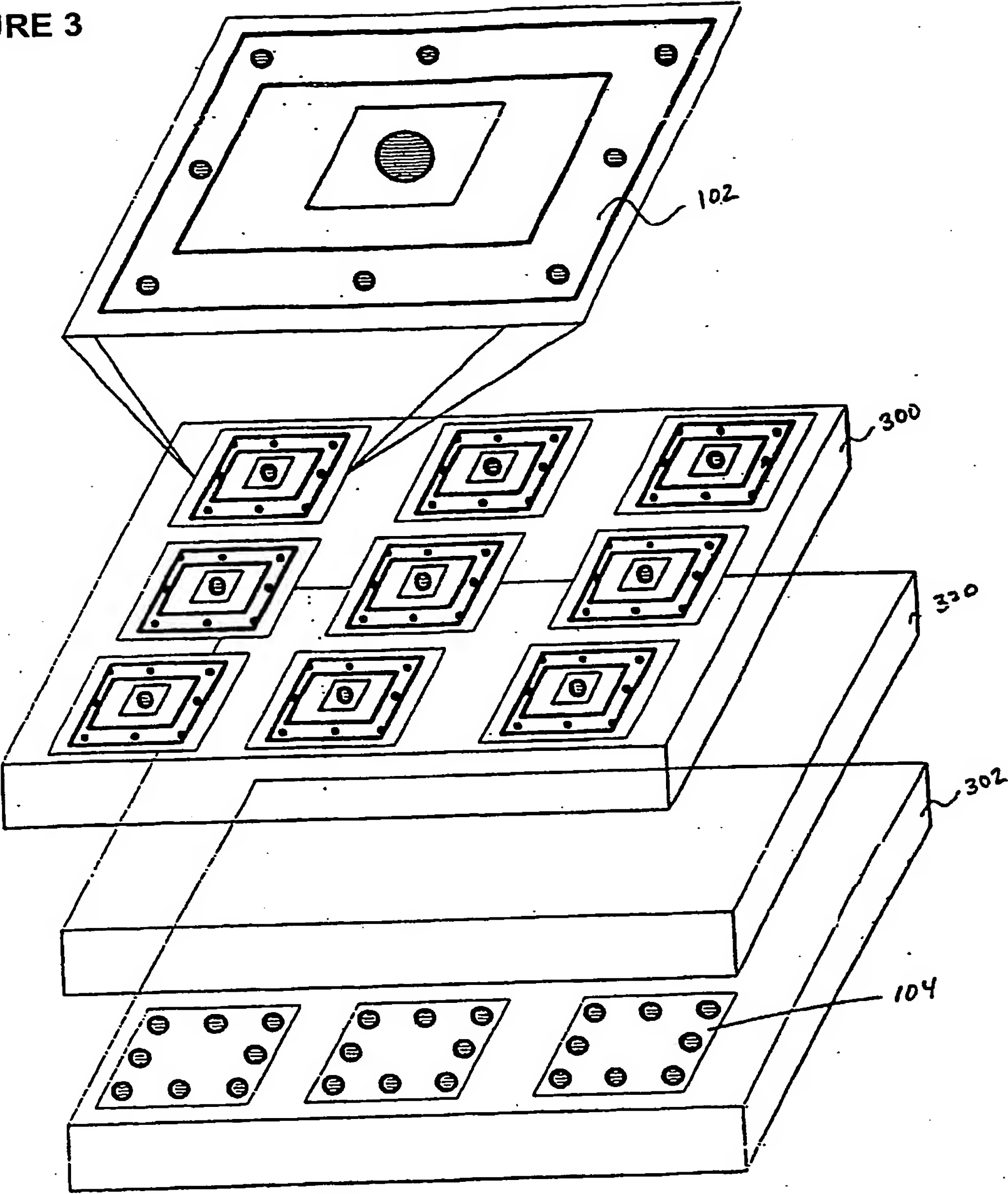
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FIGURE 2



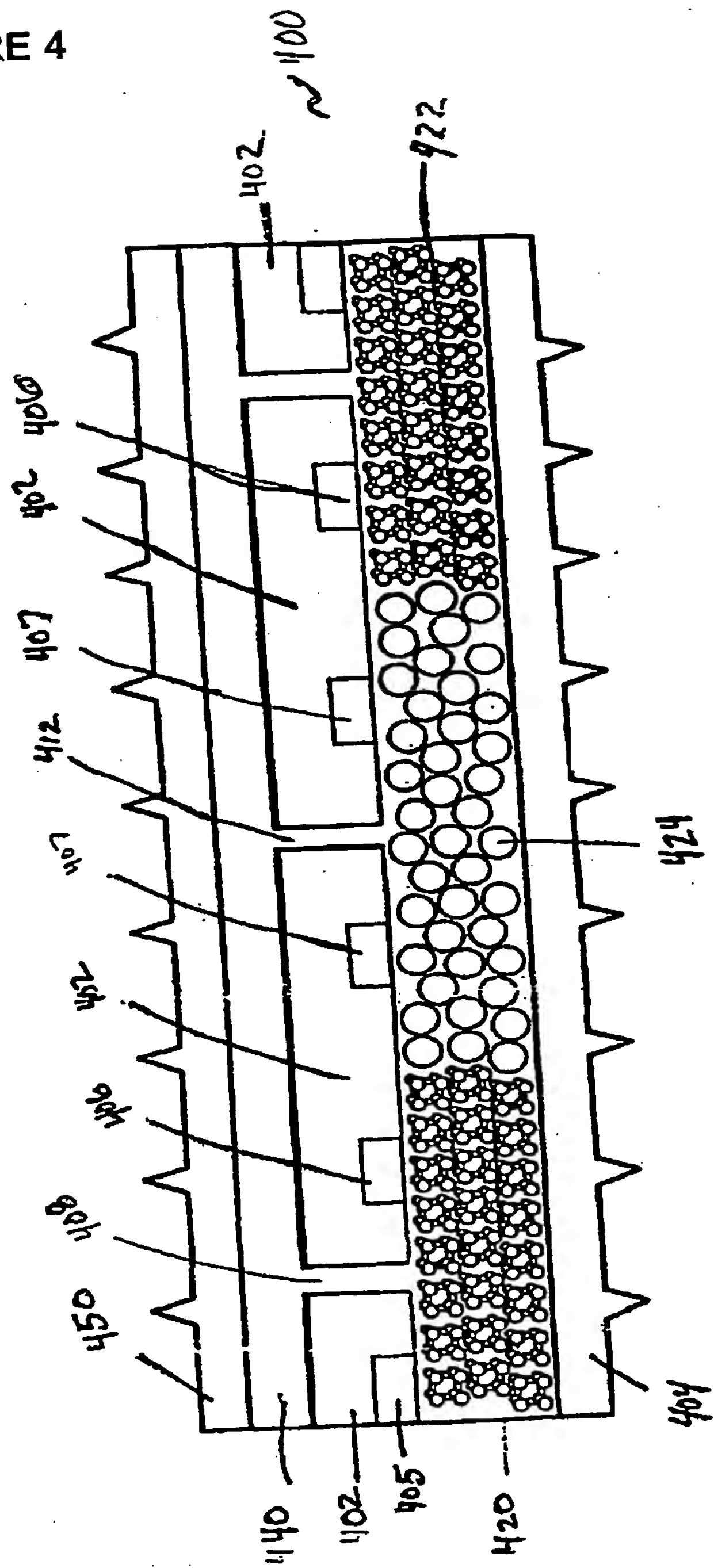
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FIGURE 3



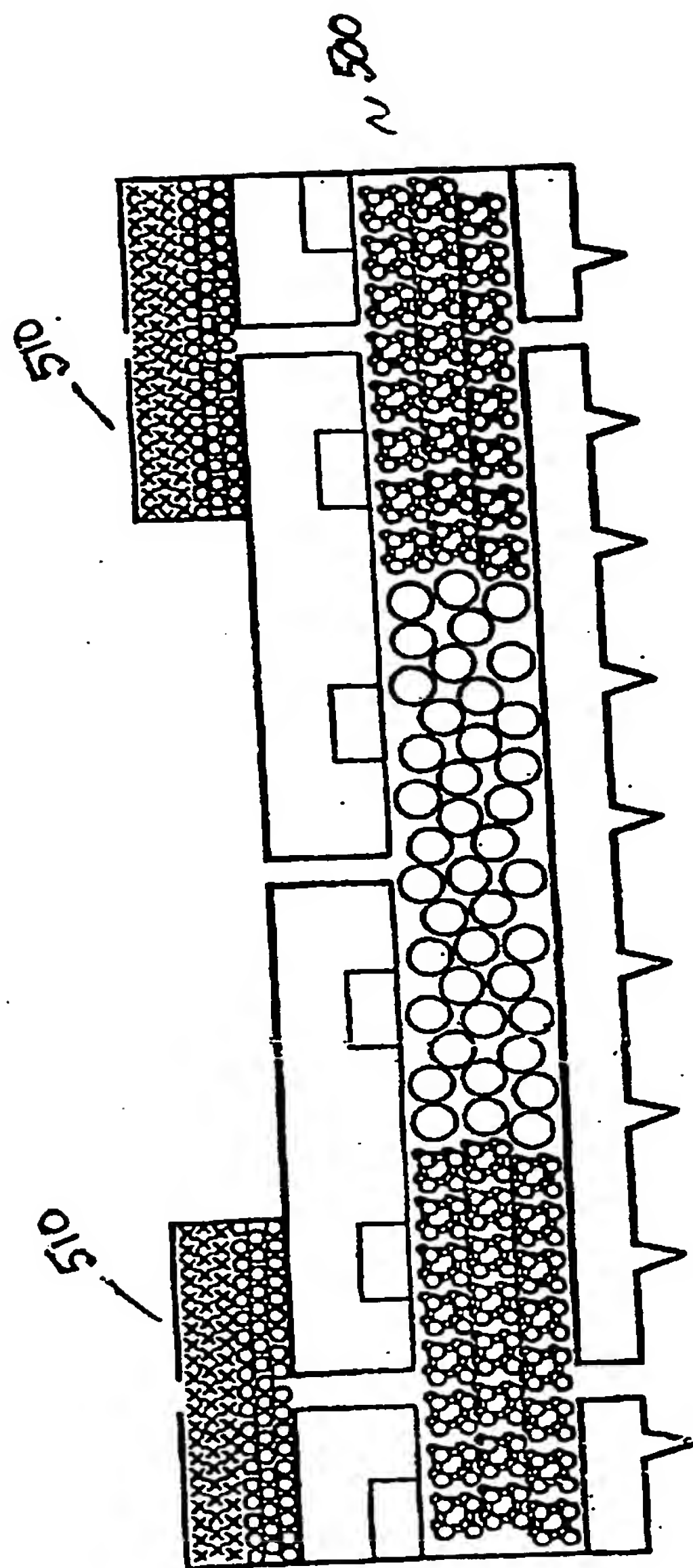
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FIGURE 4



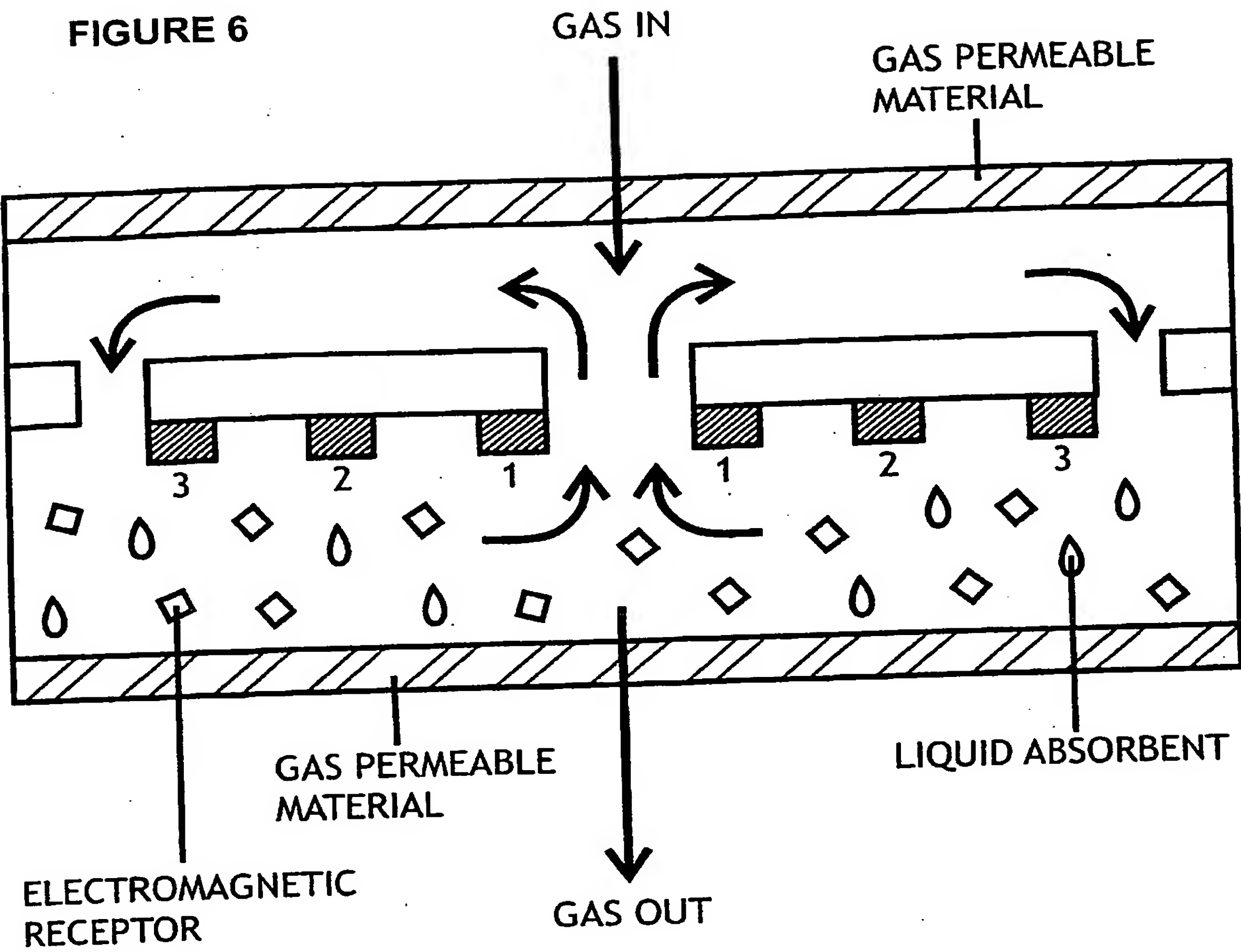
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FIGURE 5



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FIGURE 6

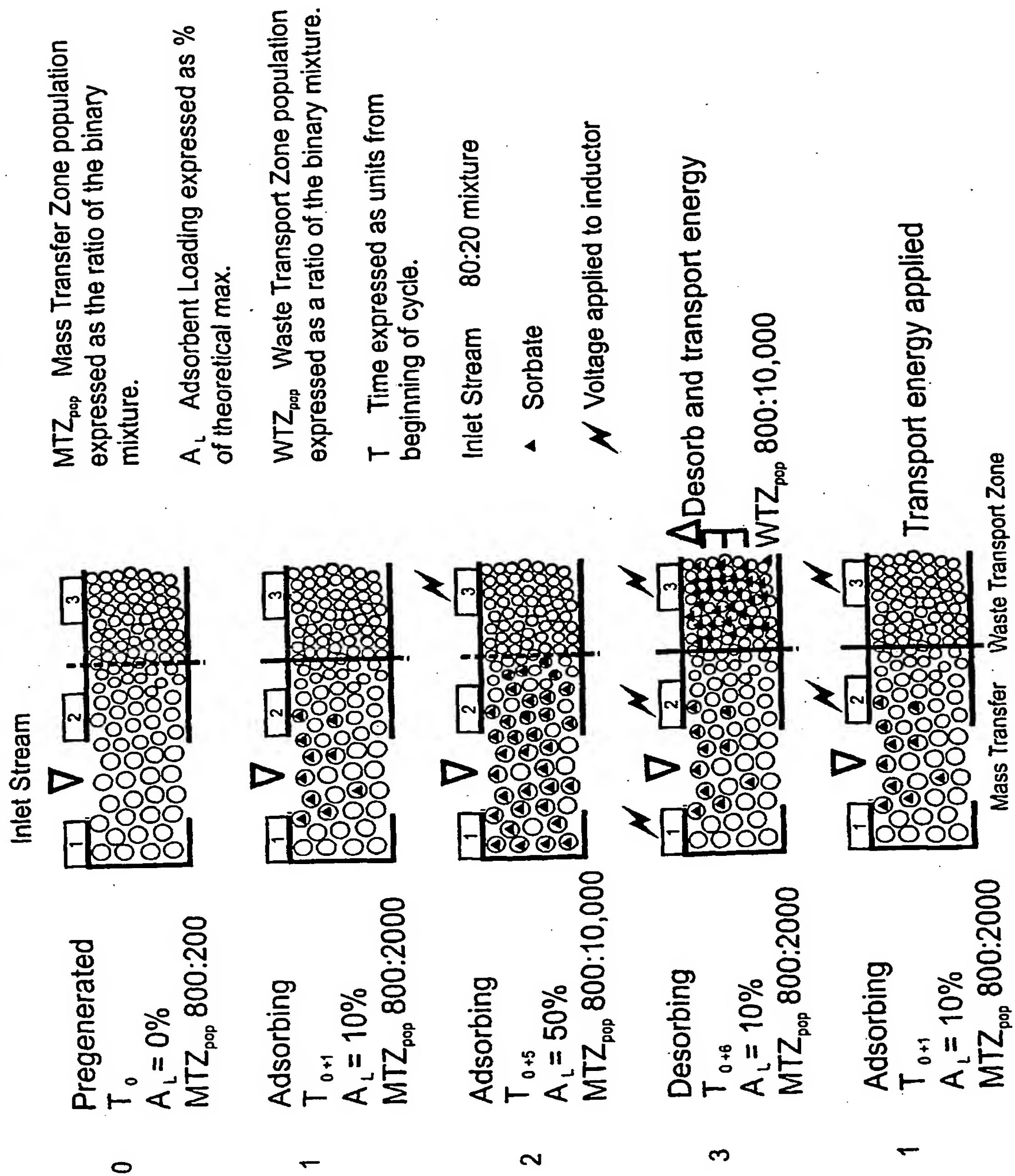


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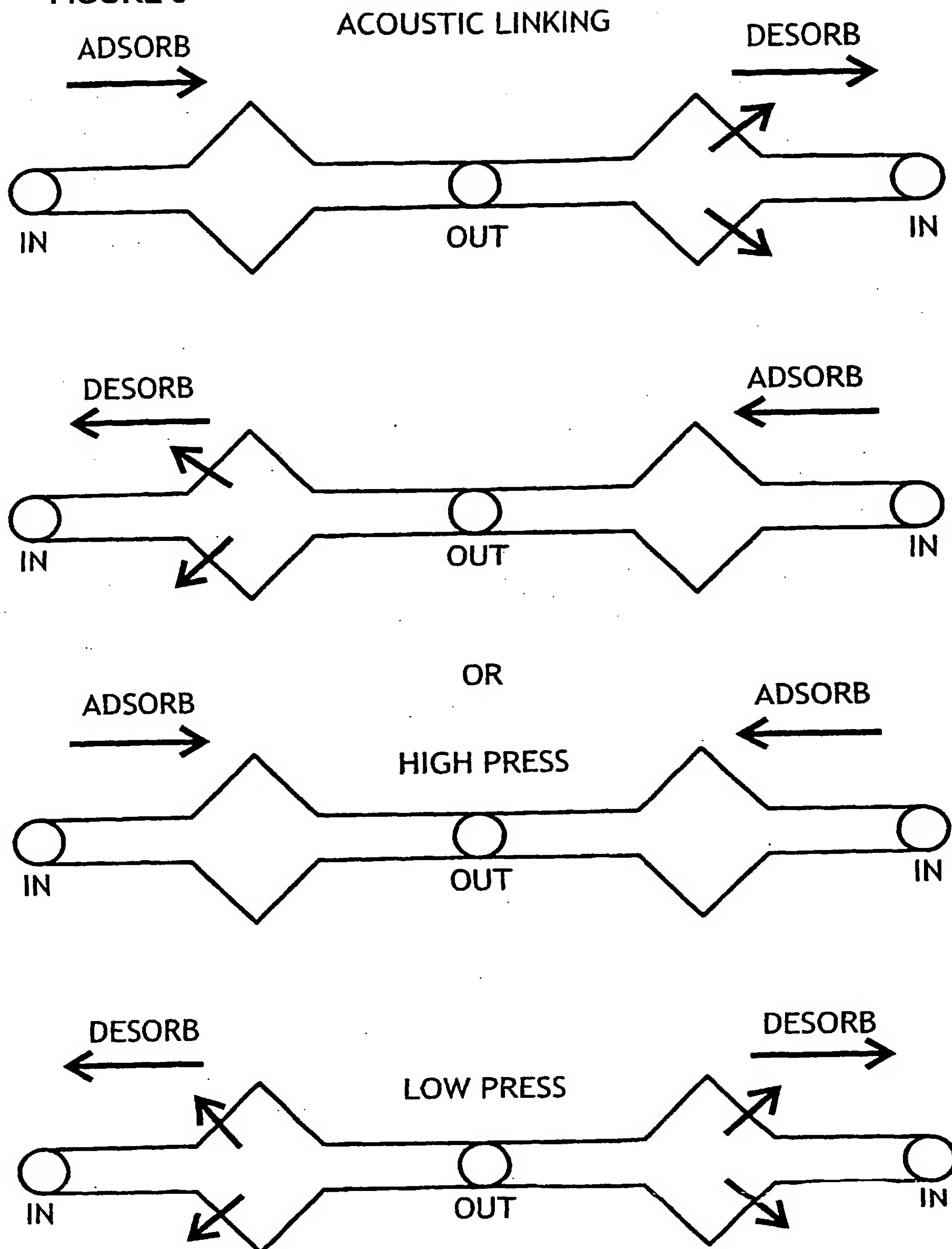
FIGURE 7

Continuous Adsorption Steps



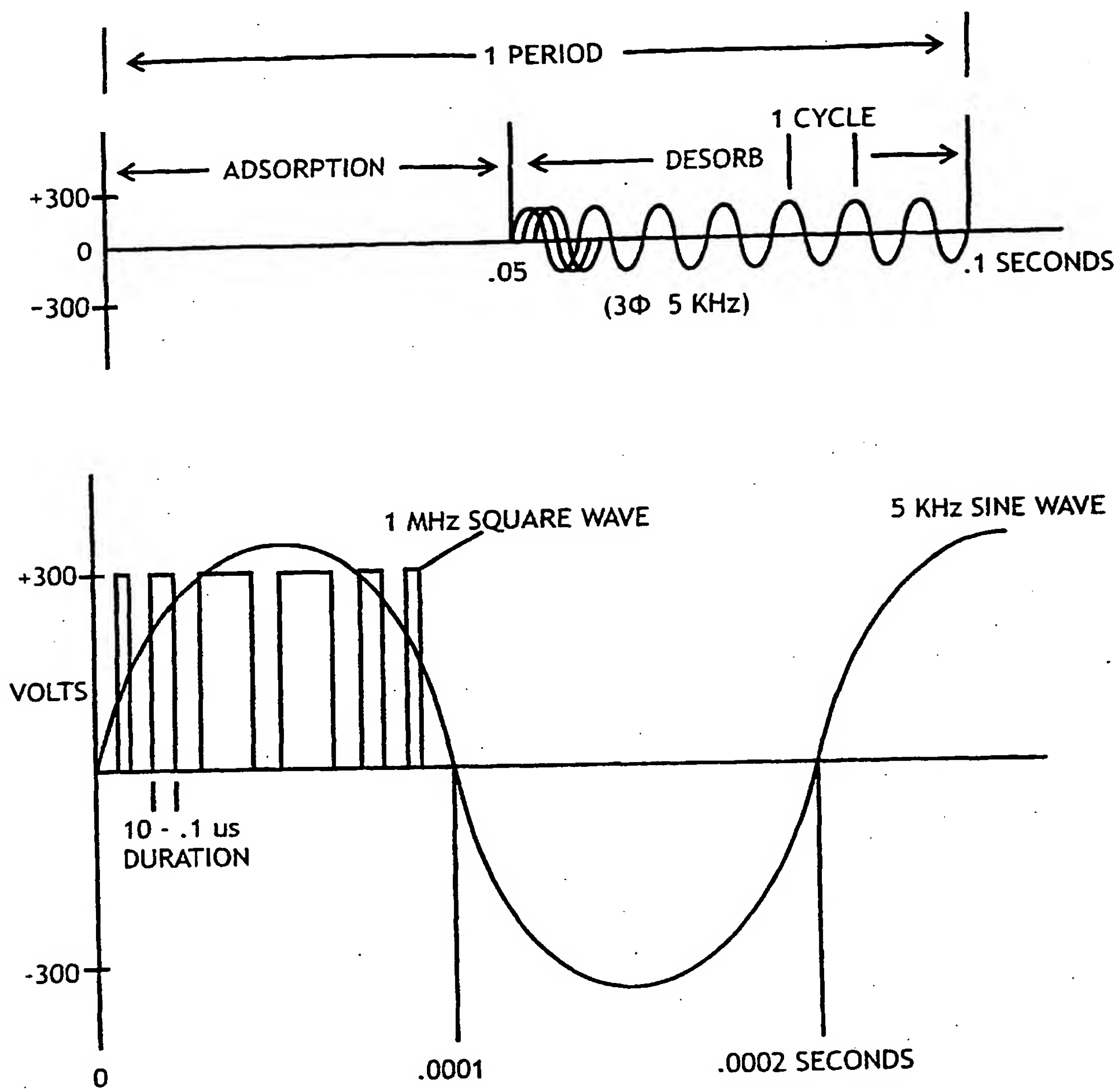
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FIGURE 8



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FIGURE 9



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FIGURE 10A
CASCADED VACUUM PUMP

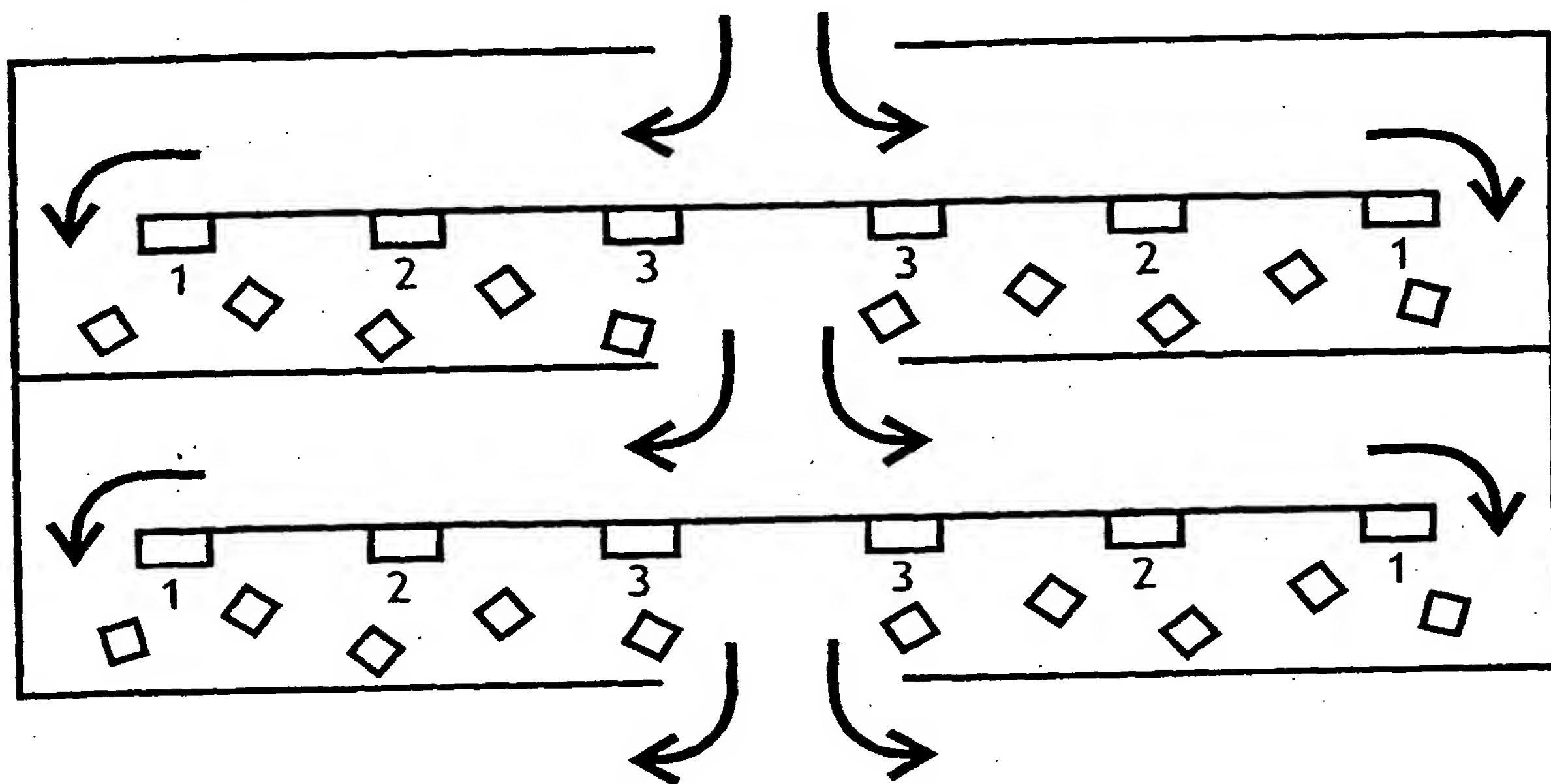


FIGURE 10B
DESORPTION - ADSORPTION SITE HOPPING PHENOMENON

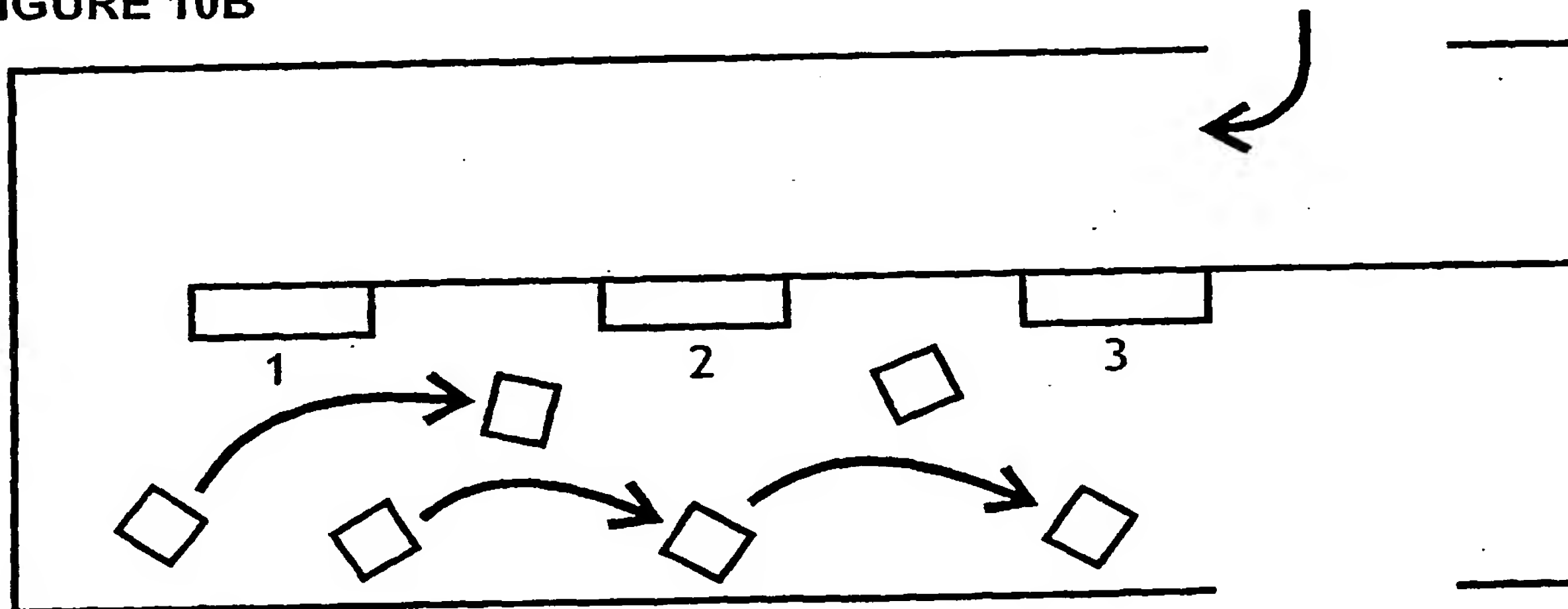
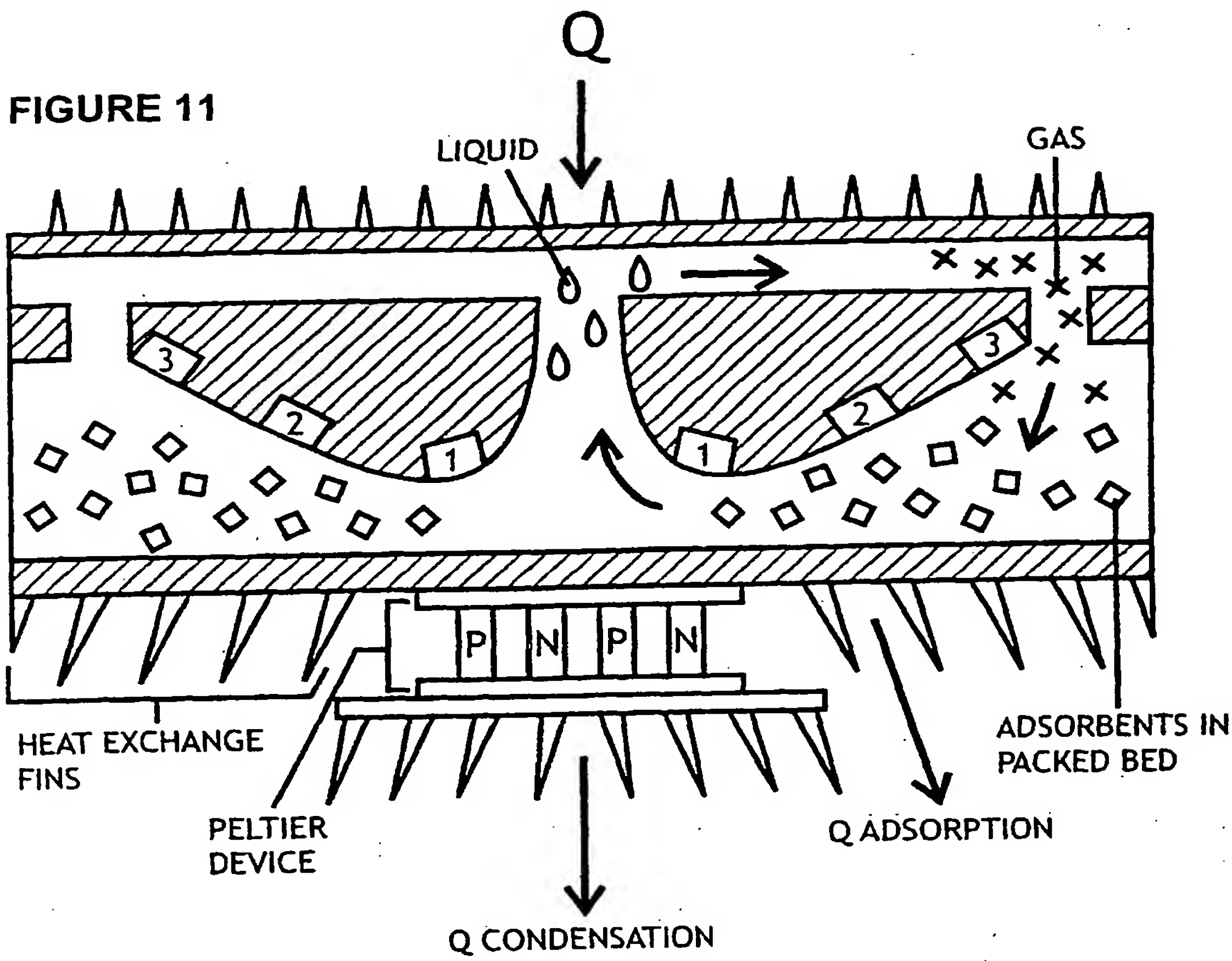


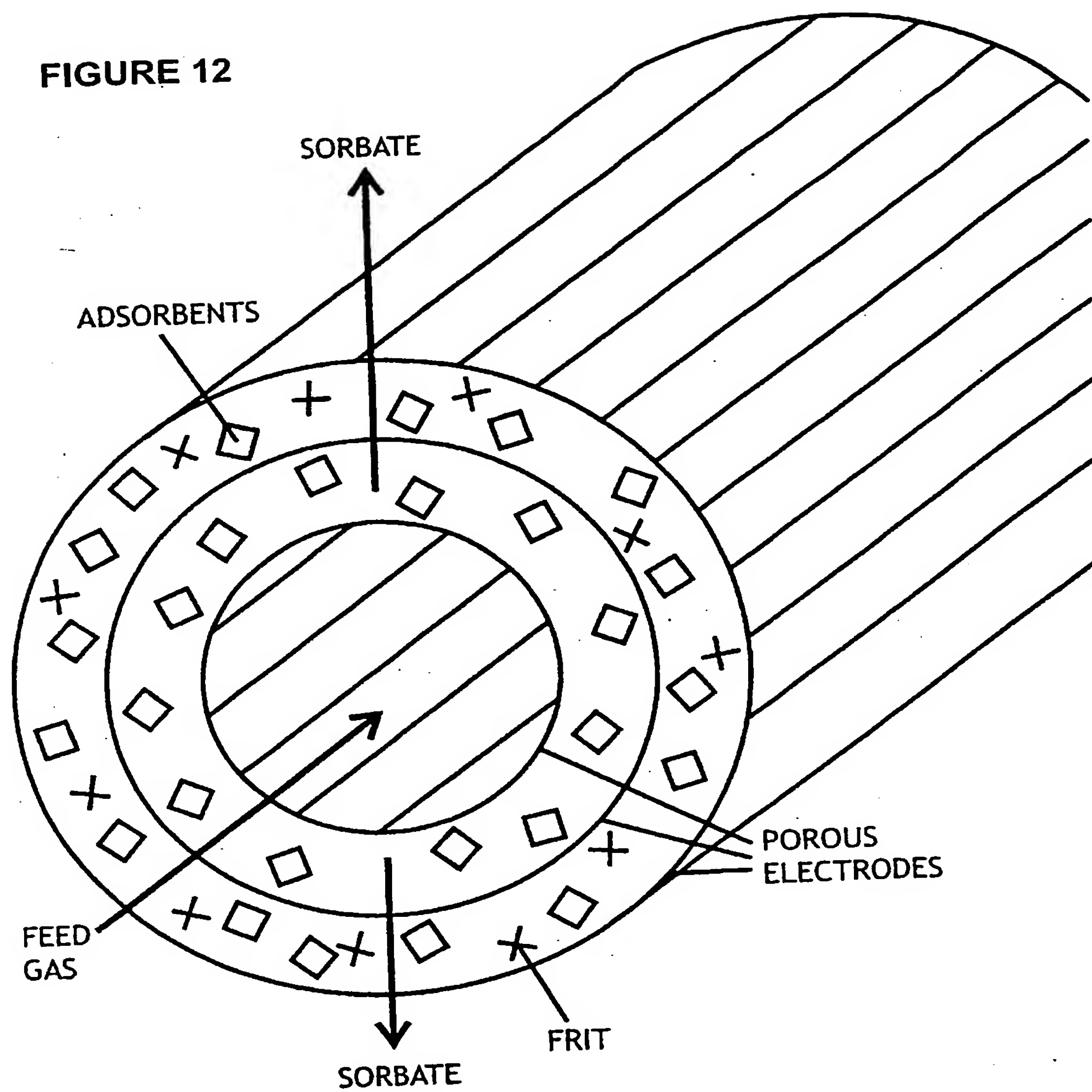
FIGURE 11



THERMOELECTRIC ASSISTED HEAT PUMP

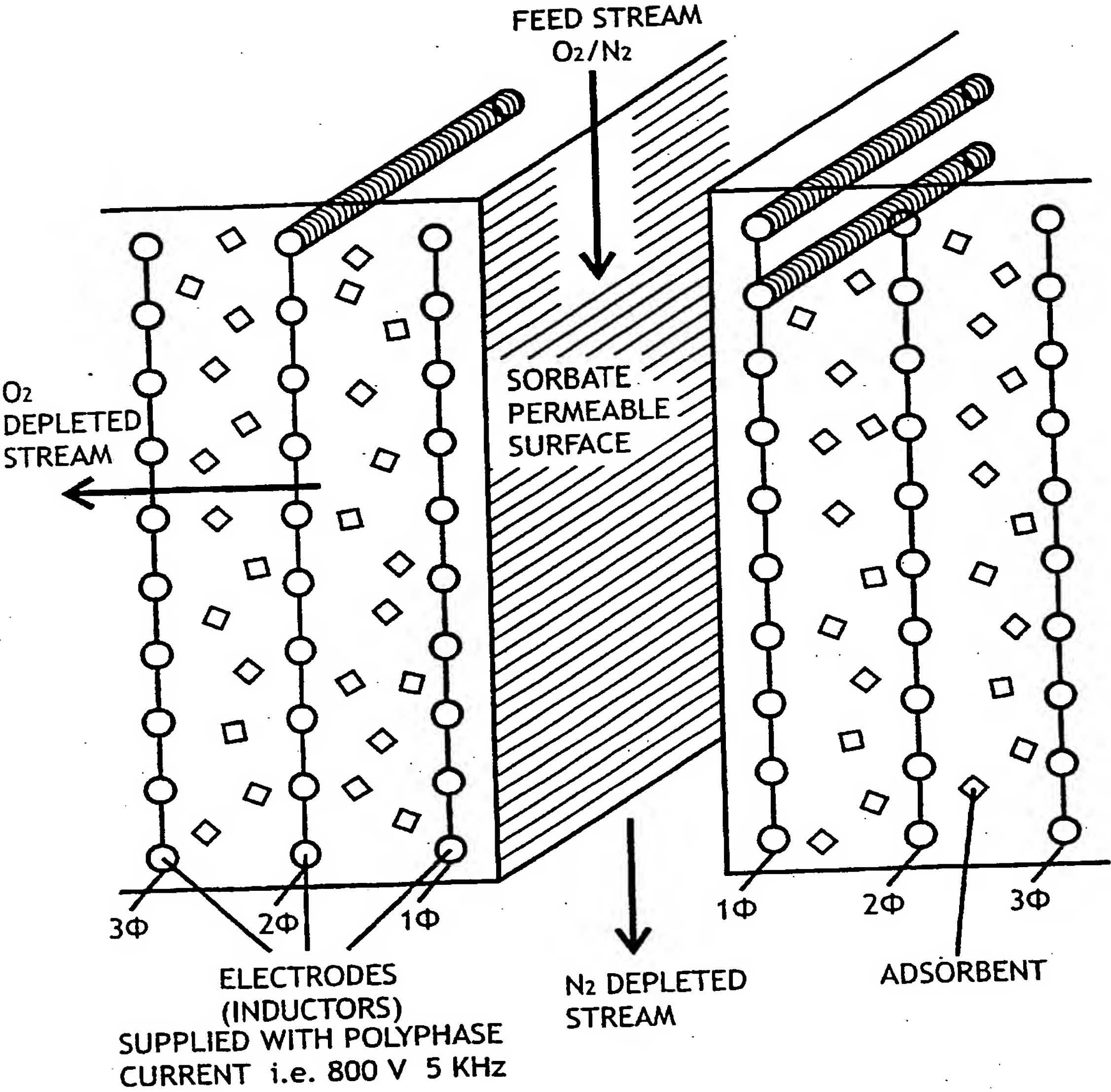
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FIGURE 12



ELECTRO KINETICALLY ASSISTED SORPTION MEMBRANE

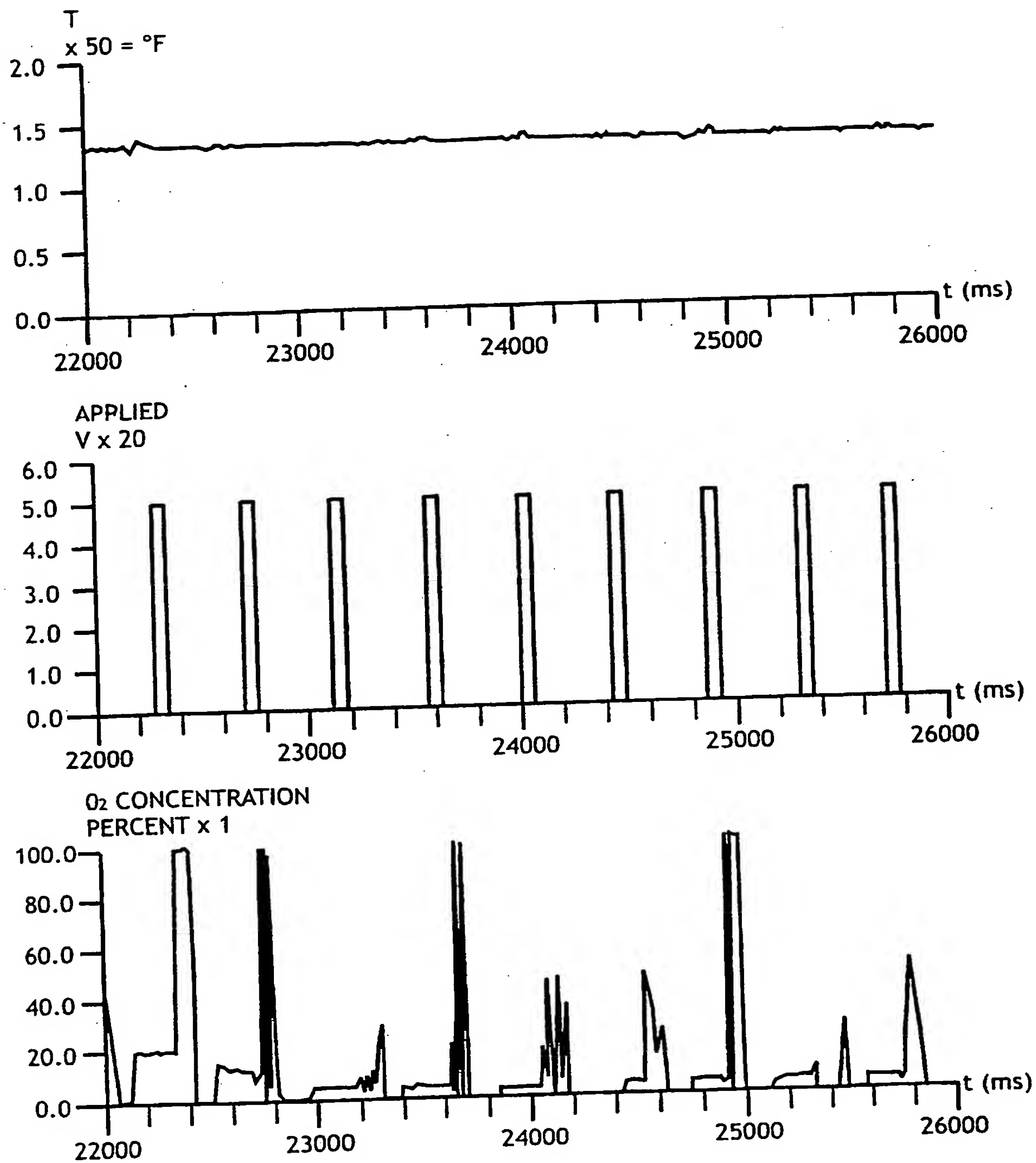
FIGURE 13



ELECTRO KINETICALLY ASSISTED SORBATE DIFFUSION

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FIGURE 14



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FIGURE 15A
PIEZO VALVE

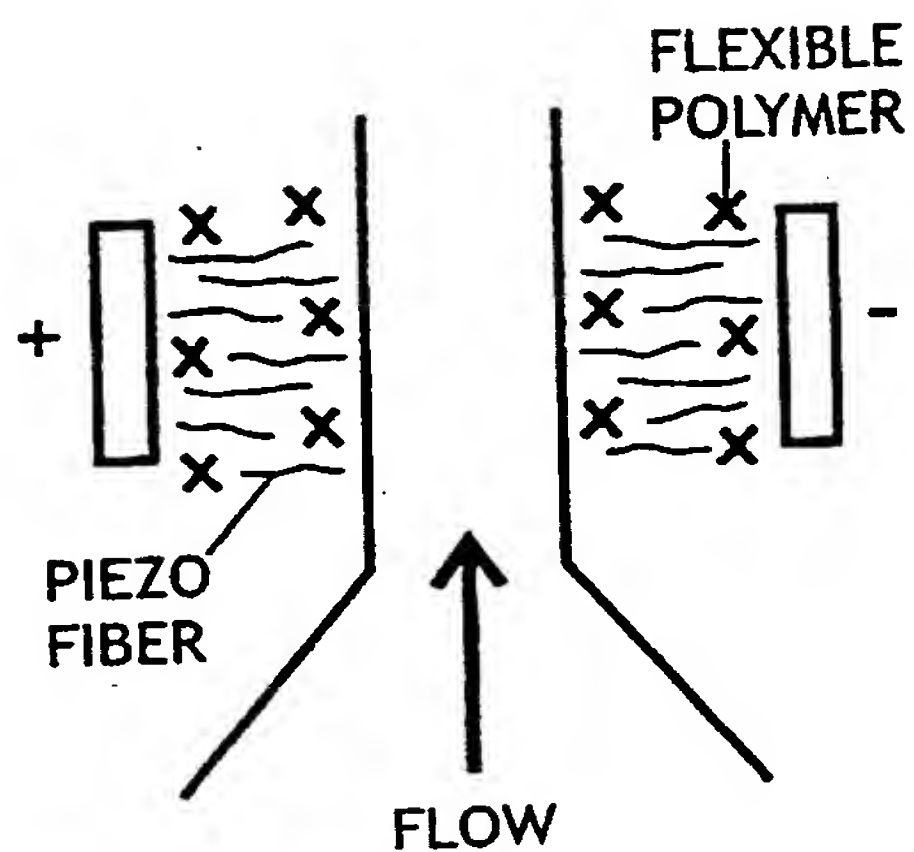
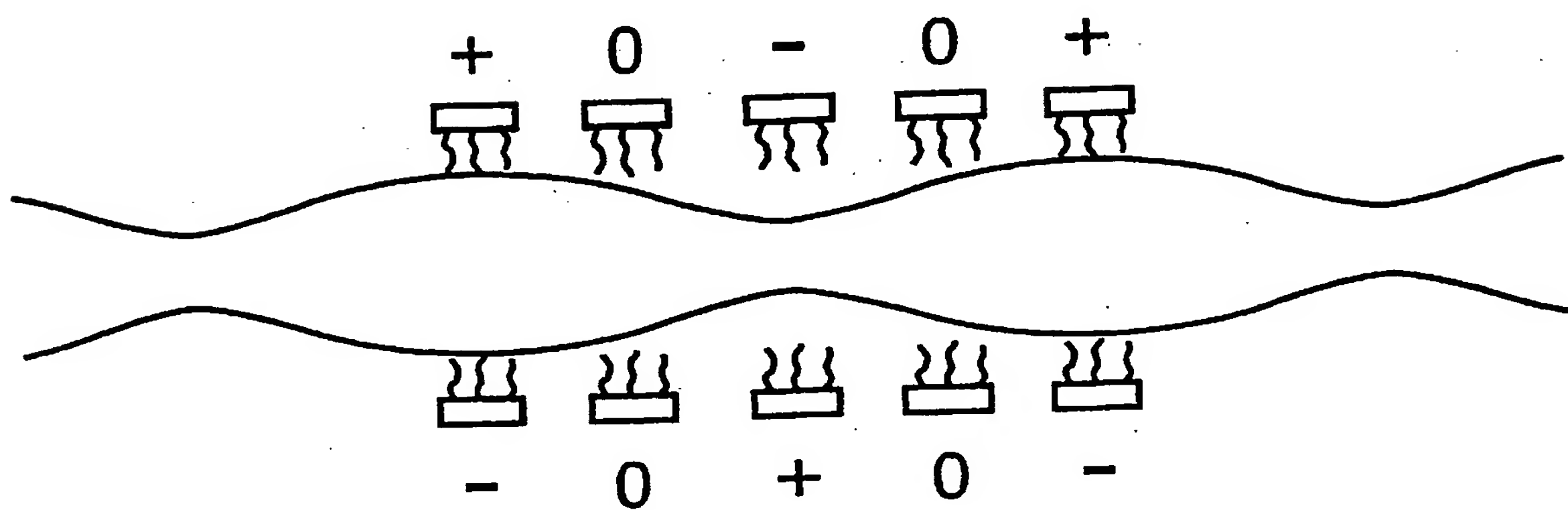
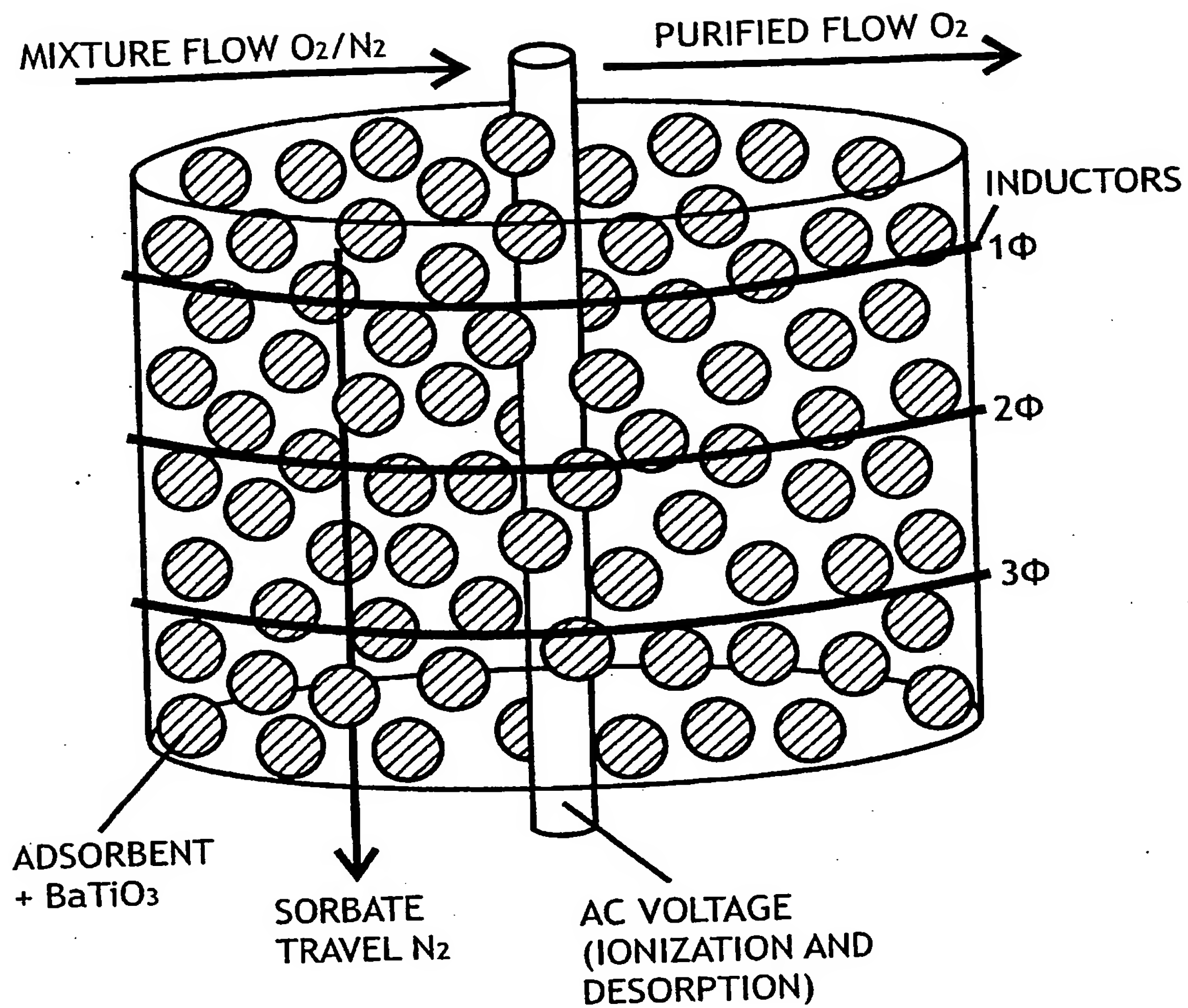


FIGURE 15B
3 PHASE PIEZO PUMP



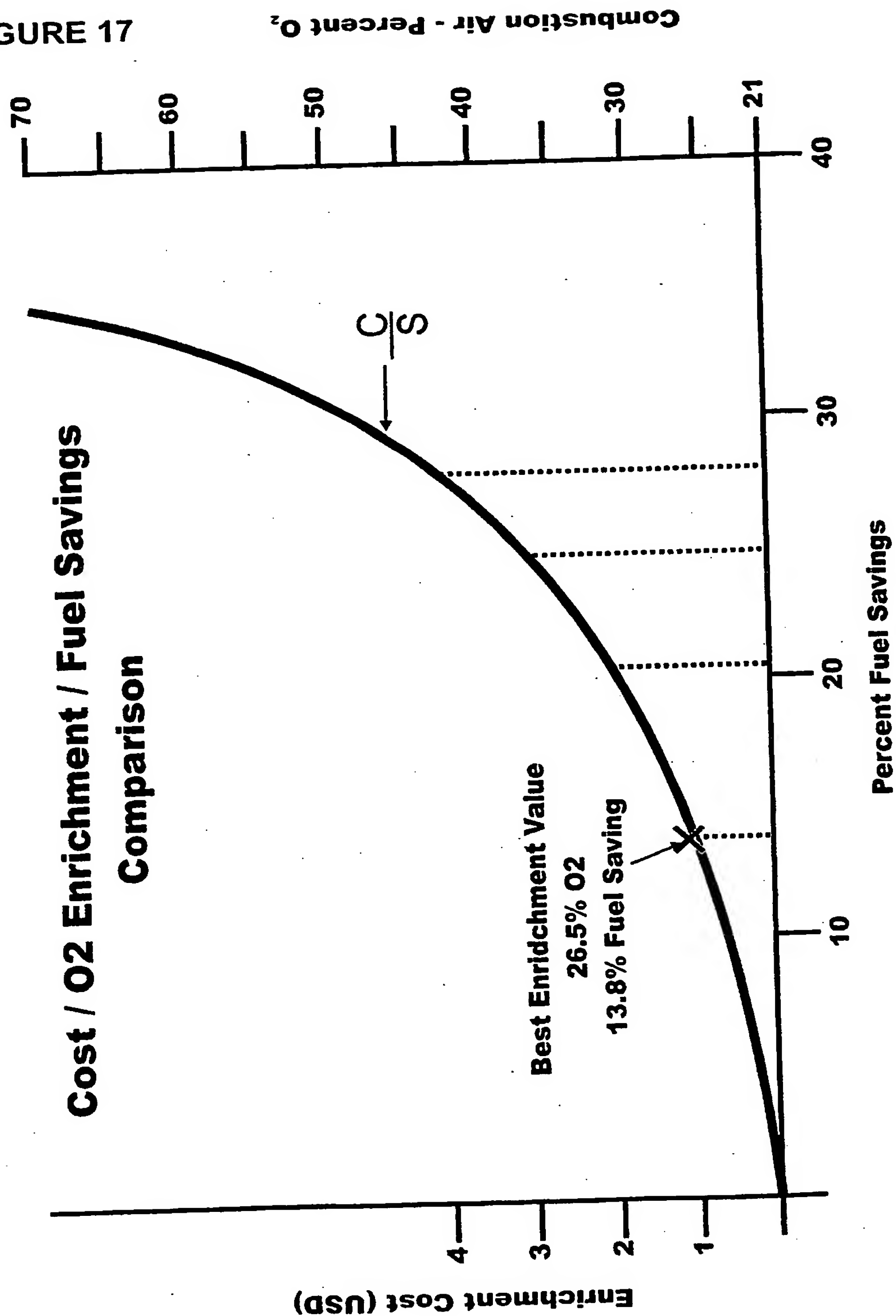
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FIGURE 16



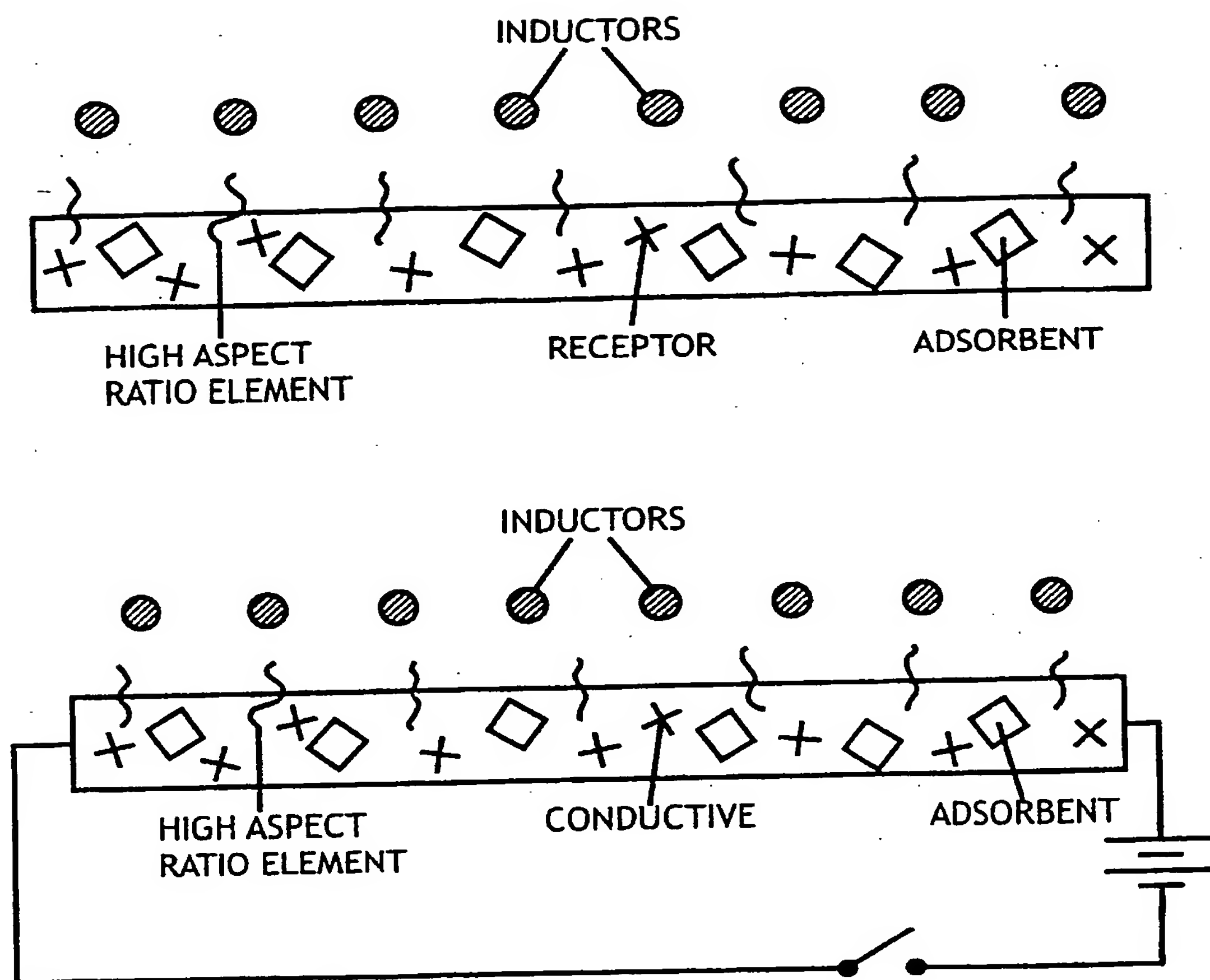
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FIGURE 17



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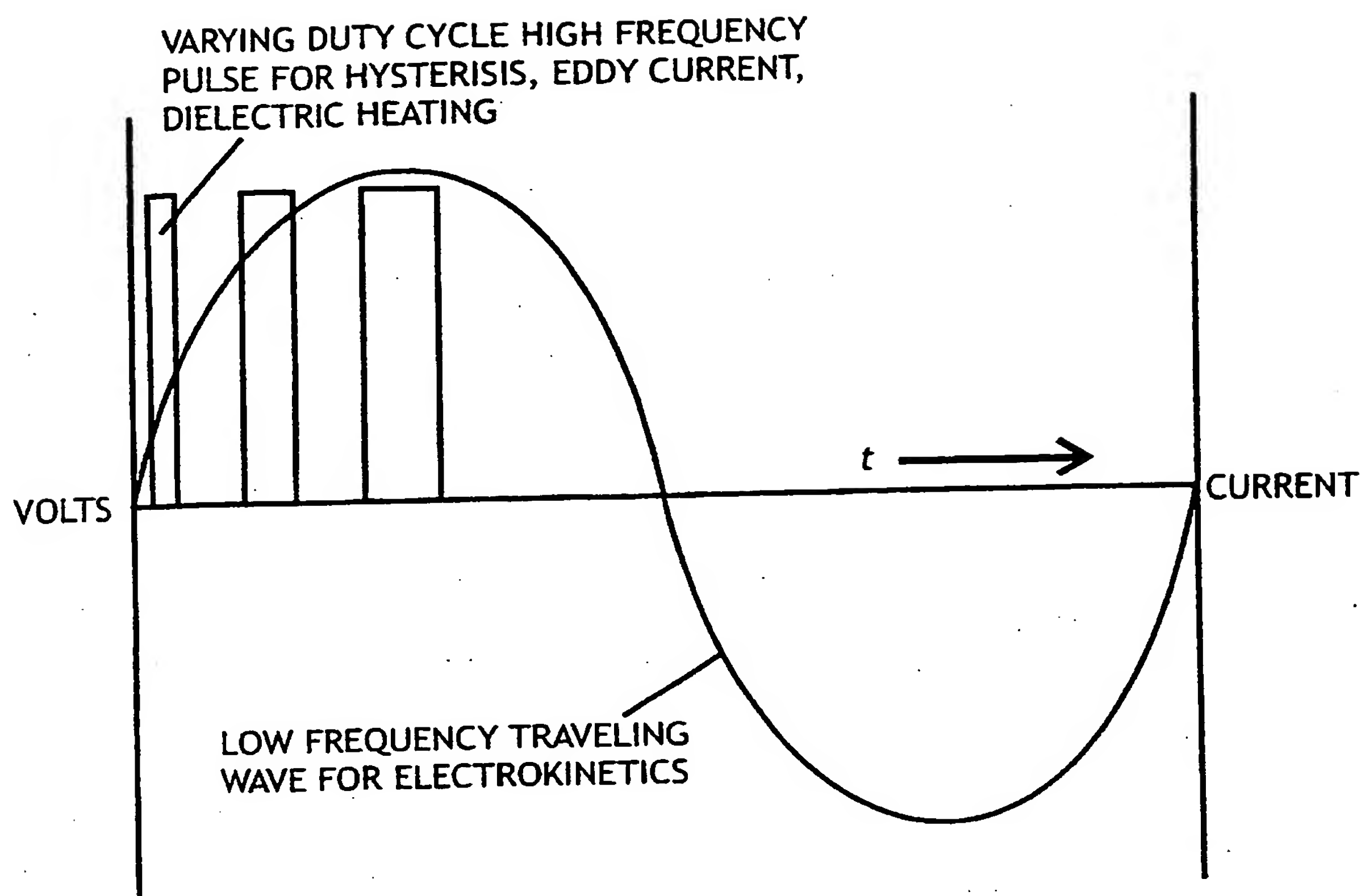
FIGURE 18



HIGH ASPECT RATIO ELEMENTS AS FIELD CONCENTRATORS FOR IONIZATION

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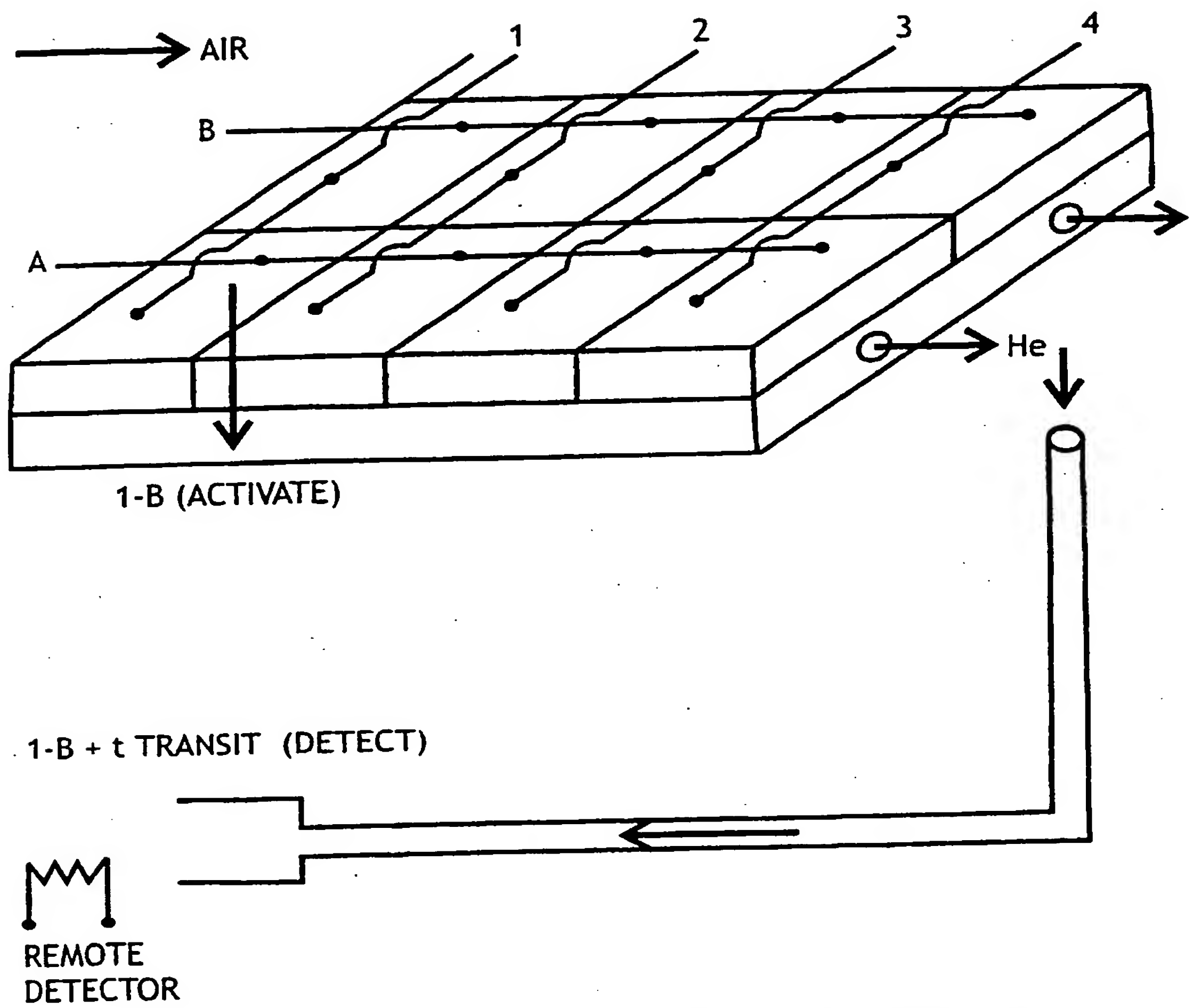
FIGURE 19



USING PULSE WIDTH MODULATION TO APPROXIMATE A SINE WAVE

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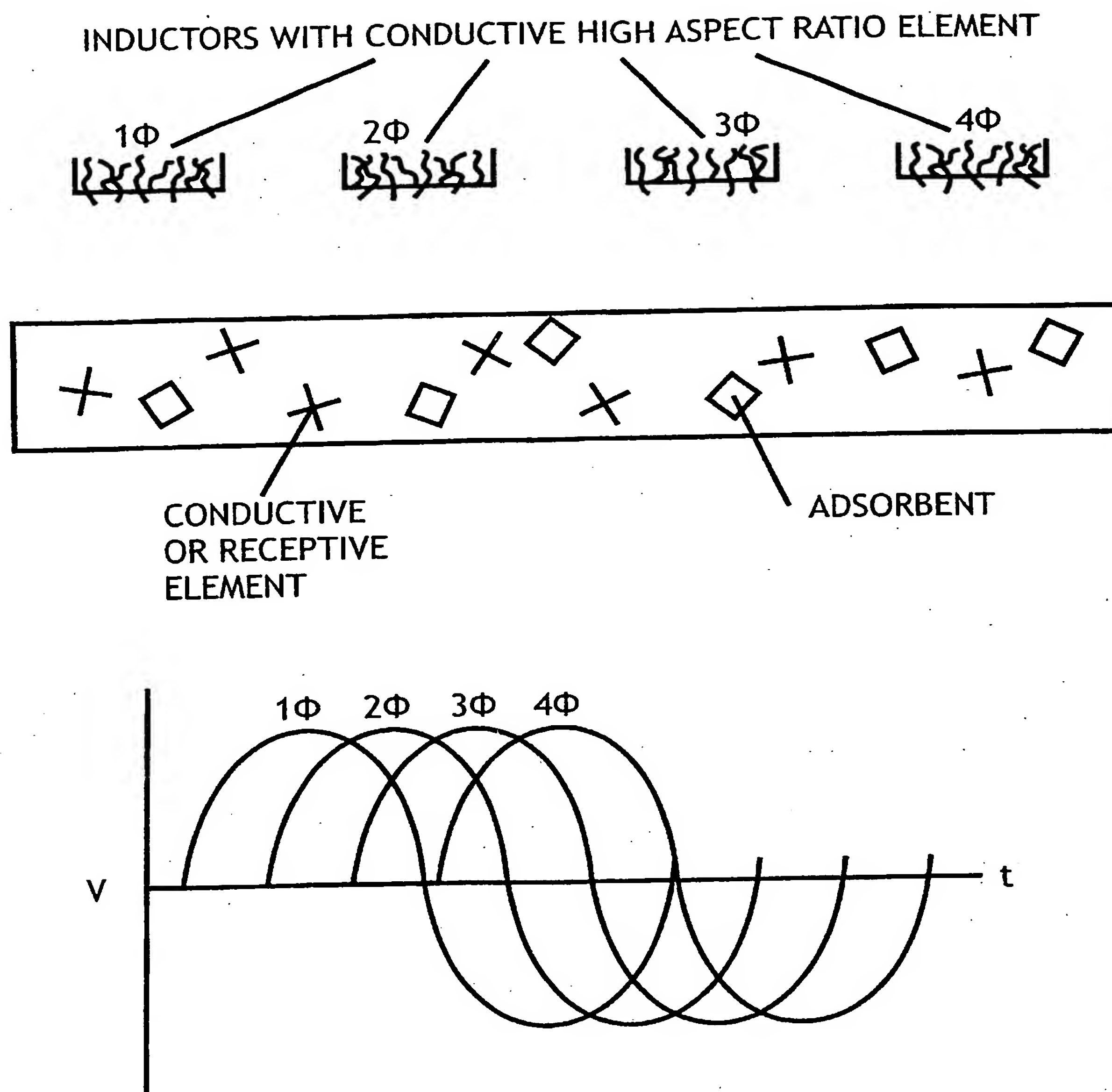
FIGURE 20



ADDRESSABLE CONCENTRATOR AND DETECTOR

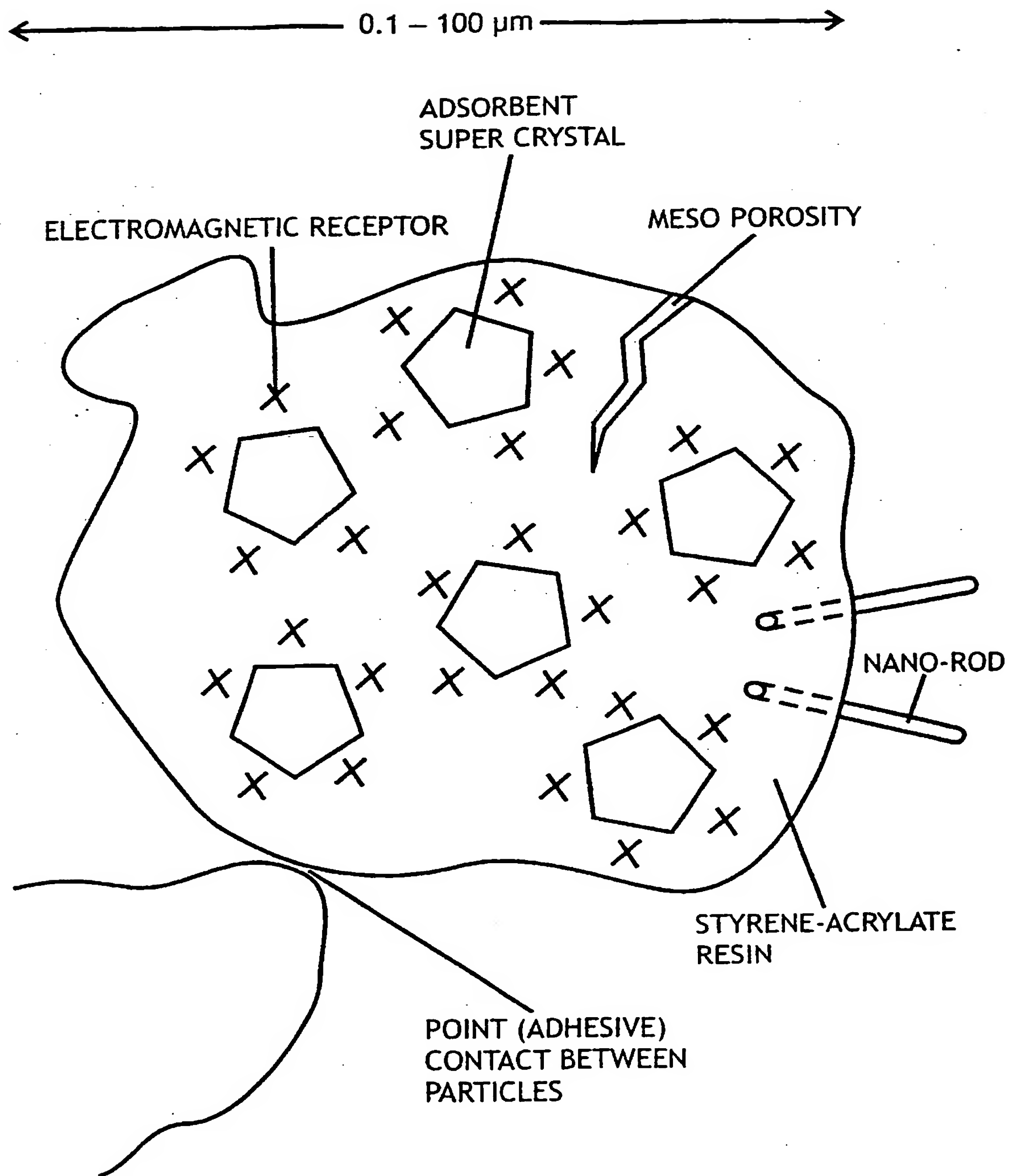
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FIGURE 21



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FIGURE 22



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